Please amend the Claims as follows:

1. (Currently Amended) A process for polymerizing olefin(s) comprising combining said olefin(s) in the presence of a catalyst system comprising a Group 15 containing bidentate or tridentate ligated metal catalyst compound, wherein the process is conducted at a temperature from between 50° C to 200° C, and wherein the catalyst compound is represented by the formulae:

$$\begin{array}{c|c}
R^4 & R^6 \\
R^3 & K^7 & K^7 \\
R^7 & K^5
\end{array}$$

or

$$\begin{array}{c|c} R^4 & R^6 \\ \hline R^3 & L'_{X} & M^{n}_{X_{n-2}} \\ \hline Z & R^7 \\ R^5 & \end{array}$$

wherein M is metal;

each X is an aryl substituted alkyl leaving group;

y is 0 or 1;

n is the oxidation state of M;

m is the formal charge of Y, Z and L or of Y, Z, and L';

L is a Group 15 element;

L' is a Group 15 element or Group 14 containing group;

Y is a Group 15 element;

Z is a Group 15 element;

 R^1 and R^2 are independently a C_1 to C_{20} hydrocarbon group, a heteroatom containing group having up to twenty carbon atoms, silicon, germanium, tin, lead, or phosphorus;

R³ is absent, a hydrocarbon group, hydrogen, a halogen, or a heteroatom containing group;

 R^4 and R^5 are independently an alkyl group, an aryl group, a substituted aryl group, a cyclic alkyl group, a substituted cyclic alkyl group, a cyclic arylalkyl group, a substituted cyclic arylalkyl group or a multiple ring system; R^1 and R^2 may be interconnected to each other, and/or R^4 and R^5 may be interconnected to each other:

R⁶ and R⁷ are independently absent, hydrogen, an alkyl group, halogen, heteroatom or a hydrocarbyl group; and

R* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group; and

wherein said Group 15 containing bidentate or tridentate ligated metal catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a suspension.

- 2. (Original) The process of claim 1 wherein R¹ and R² are selected from the group consisting of a C₁ to C₂₀ hydrocarbon group, a heteroatom containing group, silicon, germanium, tin, lead, and phosphorus.
- 3. (Original) The process of claim 1 wherein L or L' may also be bound to nothing, a hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group, and wherein each of the two Group 15 atoms are also bound to a cyclic group and may optionally be bound to hydrogen, a halogen, a heteroatom, a hydrocarbyl group, or a heteroatom containing group.

4. (Original) The process of claim 1 wherein R⁴ and R⁵ are represented by the formula:

wherein R⁸ to R¹² are each independently hydrogen, a C₁ to C₄₀ alkyl group, a halide, a heteroatom, or a heteroatom containing group containing up to 40 carbon atoms, wherein any two R groups may form a cyclic group and/or a heterocyclic group, and wherein the cyclic groups may be aromatic.

- 6. (Currently Amended) The process of claim 4 wherein R^8 to R^{12} R^9 , R^{10} and R^{12} are independently a methyl, ethyl, propyl or butyl group and X is a substituted aryl group having greater than 10 carbon atoms.
- 6. (Currently Amended) The process of claim 4 wherein R^8 to R^{12} R^9 , R^{10} and R^{12} are methyl groups, and R^8 and R^{11} are hydrogen and X is a alkyl substituted with an aryl group.
- 7. (Original) The process of claim 4 wherein L, Y, and Z are nitrogen, R¹ and R² are a hydrocarbon radical, R³ is hydrogen, and R⁶ and R⁷ are absent.
- 8. (Original) The process of claim 1 wherein L and Z are independently nitrogen, L' is a hydrocarbyl radical, and R⁶ and R⁷ are absent.
- 9. (Cancel)
- 10. (Original) The process of claim 1 wherein the process is a continuous gas phase process.
- 11. (Original) The process of claim 1 wherein the process is a continuous slurry phase process.
- 12. (Original) The process of claim 1 wherein the olefin(s) is ethylene or propylene.

- 13. (Original) The process of claim 1 wherein the olefins are ethylene and at least one other monomer having from 3 to 20 carbon atoms.
- 14. (Original) The process of claim 1 wherein the catalyst system further comprises an activator.
- 15. (New) The process of claims 1, 4, 6 or 14, wherein said Group 15 containing bidentate or tridentate ligated metal catalyst compound is spray dried.
- 16. (New) The process of claim 15, wherein said M is zirconium or hafnium, where n is +4, and wherein X is benzyl.
- 17. (New) A process for polymerizing olefin(s) comprising combining said olefin(s) in the presence of a catalyst system comprising a Group 15 containing bidentate or tridentate ligated metal catalyst compound, wherein the process is conducted at a temperature from between 50° C to 200° C, and wherein the catalyst compound is represented by the formulae:

$$R^{3}$$
 L R^{4} R^{6} R^{1} R^{6} R^{2} R^{2} R^{7} R^{5}

or

$$\begin{array}{c|c} R^4 & R^6 \\ \hline R^3 & L'_{X} & M^{n}_{X_{n-2}} \\ \hline Z & R^7 \\ \hline R^5 & \end{array}$$

wherein M is metal;

each X is an aryl substituted alkyl leaving group;

y is 0 or 1;

n is the oxidation state of M;

m is the formal charge of Y, Z and L or of Y, Z, and L';

L is a Group 15 element;

L' is a Group 15 element or Group 14 containing group;

Y is a Group 15 element;

Z is a Group 15 element;

 R^1 and R^2 are independently a C_1 to C_{20} hydrocarbon group, a heteroatom containing group having up to twenty carbon atoms, silicon, germanium, tin, lead, or phosphorus;

R³ is absent, a hydrocarbon group, hydrogen, a halogen, or a heteroatom containing group;

wherein R⁴ and R⁵ are represented by the formula:

wherein R^8 to R^{12} are each independently hydrogen, a C_1 to C_{40} alkyl group, a halide, a heteroatom, or a heteroatom containing group containing up to 40 carbon atoms, wherein any two R groups may form a cyclic group and/or a heterocyclic group, and wherein the cyclic groups may be aromatic;

R¹ and R² may be interconnected to each other, and/or R⁴ and R⁵ may be interconnected to each other;

R⁶ and R⁷ are independently absent, hydrogen, an alkyl group, halogen, heteroatom or a hydrocarbyl group;

- R* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group; and
- wherein said Group 15 containing bidentate or tridentate ligated metal catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a suspension.
- 18. (New) The process of claim 17, wherein R⁸ to R¹² are independently a methyl, ethyl, propyl or butyl group and X is a substituted aryl group having greater than 10 carbon atoms.
- 19. (New) The process of claim 17, wherein R⁸ to R¹² are methyl groups, and X is a alkyl substituted with an aryl group.
- 20. (New) The process of claim 19, wherein said X is benzyl, where n is +4, and M is zirconium or hafnium.
- 21. (New) The process of claim 20, wherein L, Y, and Z are nitrogen, R¹ and R² are a hydrocarbon group, R³ is hydrogen, and R⁶ and R⁷ are absent.
- 22. (New) The process of claim 21, wherein the process further comprises an activator, and wherein the process is a continuous gas phase process.
- 23. (New) The process of claim 21, wherein the process further comprises an activator, and wherein the process is a continuous slurry phase process.
- 24. (New) The process of claims 22 or 23, wherein the olefin(s) is ethylene or propylene.
- 25. (New) The process of claims 22 or 23, wherein the olefins are ethylene and at least one other monomer having from 3 to 20 carbon atoms and wherein said activator comprises one of alumoxane, modified alumoxane, neutral ionizing activators, or ionic ionizing activators.
- 26. (New) The process of claim 25, wherein the process further comprises supporting on a carrier, wherein said Group 15 containing bidentate or tridentate ligated metal catalyst compound, said activator, and said carrier are spray dried.

27. (New) A process for polymerizing olefin(s) comprising combining said olefin(s) in the presence of a catalyst system comprising a Group 15 containing bidentate or tridentate ligated hafnium or zirconium catalyst compound, wherein the process is conducted at a temperature from between 50° C to 200° C, and wherein the catalyst compound is represented by the formulae:

$$R^{3}$$
 L R^{6} R^{1} R^{6} R^{3} R^{2} R^{2} R^{7} R^{5}

or

$$R^4$$
 R^6
 R^3
 L'_{χ}
 R^6
 R^7
 R^7

wherein M is hafnium or zirconium; each X is a benzyl leaving group;

y is 0 or 1;

n is +4;

m is -2;

L is nitrogen;

L' is carbon, silicon or germanium;

Y is nitrogen;

Z is nitrogen;

R¹ and R² are independently a C₂ to C₆ hydrocarbon group;

R³ is hydrogen;

 R^1 and R^2 may be interconnected to each other;

R⁶ and R⁷ are absent;

R* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group;

wherein R⁴ and R⁵ are represented by the formula:

wherein R⁸ to R¹² are methyl groups; and

wherein said Group 15 containing bidentate or tridentate ligated hafnium or zirconium catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a suspension.

- 28. (New) The process of claim 27, wherein the catalyst system further comprises an activator.
- 29. (New) The process of claim 28, wherein said activator comprises one of alumoxane, modified alumoxane, neutral ionizing activators, or ionic ionizing activators.
- 30. (New) The process of claim 29, wherein the process further comprises a support, and wherein said Group 15 containing bidentate or tridentate ligated hafnium or zirconium catalyst compound, said activator, and said support are spray dried.

31. (New) An olefin polymerization process comprising comprising combining olefin(s), in the presence of a catalyst system comprising a Group 15 containing bidentate or tridentate ligated hafnium or zirconium catalyst compound, and activator, and a carrier, wherein the process is conducted at a temperature from between 50° C to 200° C, and wherein the catalyst compound is represented by the formulae:

$$R^{3}$$
 L R^{6} R^{1} R^{6} R^{3} R^{2} R^{2} R^{7} R^{5}

or

$$R^{4}$$
 R^{6}
 R^{3}
 L'_{y}
 R^{6}
 R^{7}
 R^{7}

wherein M is hafnium or zirconium; each X is a benzyl leaving group; y is 0 or 1; n is +4; m is -2;

L is nitrogen;

L' is carbon, silicon or germanium;

Y is nitrogen;

Z is nitrogen;

 R^1 and R^2 are independently a C_2 to C_6 hydrocarbon group;

R³ is hydrogen;

 R^1 and R^2 may be interconnected to each other;

R⁶ and R⁷ are absent;

R* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group; and

wherein said Group 15 containing bidentate or tridentate ligated hafnium or zirconium catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a suspension;

wherein R^4 and R^5 are represented by the formula:

wherein R⁸ to R¹² are methyl groups;

wherein said activator comprises one of alumoxane, modified alumoxane, neutral ionizing activators, or ionic ionizing activators;

and wherein said Group 15 containing bidentate or tridentate ligated hafnium or zirconium catalyst compound, said activator, and said carrier are spray dried.